

ELECTRICAL SYMBOLS EXTERIOR

DP 1110-1-1
APP A
1 MAR 97

AERIAL:

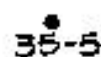
ALSO REFER TO THE TOPOGRAPHY - EXTERIOR UTILITIES PORTION OF THIS VOLUME

POLE - LENGTH AND CLASS INDICATED

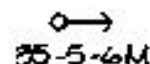
EXISTING

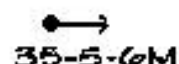
NEW

 35-5

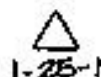
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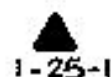
POLE WITH DOWN GUY AND ANCHOR - LENGTH AND CLASS
OF POLE AND STRENGTH OF GUY IN POUNDS AS INDICATED.

 35-5-6M


 35-5-6M


TRANSFORMER INSTALLATION - DESIGNATION 1-25-1 INDICATES
QUANTITY, KVA AND TRANSFORMER PHASES, RESPECTIVELY;
i.e., ONE 25 KVA SINGLE PHASE. SYMBOL IMPLIES
LIGHTNING ARRESTERS AND FUSED CUTOUPS. ALSO, AS
SHOWN ON TYPICAL OR SPECIAL DETAILS ON DRAWING. PHASE
CONNECTION AS INDICATED.

 1-25-1

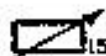
 1-25-1

POLE WITH STREET LIGHT - LENGTH AND CLASS OF POLE
TYPE AND SIZE OF LUMINAIRE.*

 35-5
SF2500
110

 35-5
SF2500
110

STREET LIGHTING REGULATOR -
RATING IN KW AS INDICATED

 15

STREET LIGHT DESIGNATIONS:

SECTIONALIZING SWITCH
MOUNTED ON CROSSARM -
NORMALLY OPEN



COLOR CORRECTED MERCURY
FOLLOWED BY WATTAGE

C

SECTIONALIZING SWITCH
MOUNTED ON CROSSARM -
NORMALLY CLOSED



SERIES

S

AUTOMATIC CIRCUIT RECLOSER

 R

PHOTO-ELECTRIC CONTROL

PH

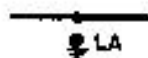
AUTOMATIC LINE SECTIONALIZER

 S

FILAMENT LAMP - FOLLOWED BY
LUMEN SIZE OR WATTAGE

F

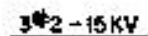
LIGHTNING ARRESTER IN
EACH PHASE WIRE

 LA

MERCURY VAPOR LAMP -
FOLLOWED BY WATTAGE

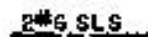
M

PRIMARY LINE - NUMBER,
SIZE, AND VOLTAGE OF
WIRES AS INDICATED

 3#2-15KV

IES DISTRIBUTION TYPE II, III, IV, V

STREET LIGHTING SERIES -
WIRE, NUMBER AND SIZE
AS INDICATED

 2#6 SL S

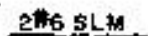
ENCLOSED

E

OPEN

O

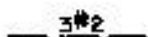
STREET LIGHTING MULTIPLE -
WIRE, NUMBER AND SIZE
AS INDICATED

 2#6 SL M

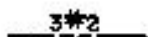
NOTE:

NUMBER, SIZES, AND VOLTAGES OF
CONDUCTORS MAY BE IDENTIFIED BY
NOTATION OR SCHEDULE.

THREE PHASE SECONDARY
LINE - NUMBER AND SIZE
OF WIRES AS INDICATED

 3#2

SINGLE PHASE SECONDARY
LINE - NUMBER AND SIZE
OF WIRES AS INDICATED

 3#2

ELECTRICAL SYMBOLS EXTERIOR

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UNDERGROUND:

EXISTING

NEW

MANHOLE-NUMBER AND TYPE AS INDICATED



HANDHOLE



TRANSFORMER MANHOLE OR VAULT



TRANSFORMER MOUNTED ON CONCRETE PAD (DESCRIBE)



UNDERGROUND DIRECT BURIAL CABLE, INDICATE TYPE, SIZE, NUMBER OF CONDUCTORS AND VOLTAGE. SEE NOTES BELOW.

4#2/0-15KV

4#2/0-15KV

UNDERGROUND DUCT LINE. INDICATE TYPE, SIZE AND NUMBER OF DUCTS AND CONDUCTORS BY NOTATION OR SCHEDULE. SEE NOTES BELOW.

4#2/0-15KV → 4 2/0-15KV →
4"-4W 4"-4W

STREET LIGHTING STANDARD FED FROM UNDERGROUND



NOTES:

1. SINGLE CONDUCTOR CABLES SHALL BE INDICATED AS FOLLOWS: 4#2/0-15KV; 3#2-5KV AND 1#6-600V; OR 3-1/C #500 MCM-15KV.
2. THREE CONDUCTOR CABLES SHALL BE INDICATED AS FOLLOWS: 3/C #4/0-15KV; 3/C 500 MCM.
3. DUCTS SHALL BE INDICATED AS FOLLOWS: 6"-4W, 4"-8W, 5"-4W, WITH 4W INDICATING FOUR DUCTS, 8W INDICATING 8 DUCTS, ETC.
4. SPECIFY GROUNDED, OR UNGROUNDED AND SHIELDING OF CONDUCTORS BY NOTE OR SPECIFICATION.
5. SYMBOLS ARE FOR ILLUSTRATIVE PURPOSES ONLY. VARY TO SUIT SCALE OF DRAWING.

ELECTRICAL SYMBOLS INTERIOR

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GENERAL OUTLETS:

LIGHTING OUTLET SUBSCRIPT
DESIGNATES FIXTURE TYPE

BLANKED OUTLET

UNIT HEATER

ELECTRIC HEATER

EXHAUST FAN

JUNCTION BOX

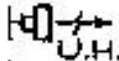
THERMOSTAT

EXIT LIGHT OUTLET

CLOCK OUTLET

FLUORESCENT FIXTURE
OUTLET - DESIGNATE TYPE

CEILING WALL



SWITCH OUTLETS:

SINGLE POLE SWITCH

DOUBLE POLE SWITCH

THREE WAY SWITCH

FOUR WAY SWITCH

DOOR SWITCH

SWITCH FOR LOW VOLTAGE
SYSTEM

KEY OPERATED SWITCH

SWITCH OPERATED PILOT
LAMP

MOMENTARY CONTACT SWITCH

REMOTE CONTROL SWITCH

WEATHERPROOF SWITCH

S

S₂

S₃

S₄

S_D

S_L

S_K

S_P

S_{MC}

S_{RC}

S_{WP}

CONVENIENCE OUTLETS:

SINGLE RECEPTACLE

DUPLEX RECEPTACLE

WEATHERPROOF RECEPTACLE

RANGE OUTLET

SWITCH AND RECEPTACLE

DUPLEX RECEPTACLE-SPLIT WIRED

SPECIAL PURPOSE OUTLET -
(DESIGNATE IN SPEC)

FLOOR OUTLET - DUPLEX
RECEPTACLE



FLOODLIGHTS: INTERIOR OR EXTERIOR

CEILING

WALL OR POLE



NOTE: ARROW INDICATES DIRECTION
OF BEAM.

NOTE:















SYMBOLS NOT SHOWN WILL CONFORM TO "AMERICAN NATIONAL STANDARDS INSTITUTE".

ELECTRICAL SYMBOLS

INTERIOR CONTINUED

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PANELS, CIRCUITS, AND MISCELLANEOUS:

LIGHTING PANEL		FEEDERS	
POWER PANEL		AUXILIARY SYSTEM CIRCUITS	
COMBINATION PANEL		UNDERFLOOR DUCT AND JUNCTION BOX-TRIPLE, DOUBLE OR SINGLE DUCT SYSTEM IS DESIGNATED BY NUMBER OF PARALLEL LINES	
BRANCH CIRCUIT; CONCEALED IN CEILING OR WALL			
BRANCH CIRCUIT; CONCEALED IN OR BELOW FLOOR		GENERATOR-SUBSCRIPT DESIGNATES KW RATING	
BRANCH CIRCUIT; EXPOSED		MOTOR-SUBSCRIPT DESIGNATES H.P. SIZE	
HOME RUN TO PANEL BOARD INDICATE NUMBER OF CIRCUITS BY NUMBER OF ARROWS. ANY CIRCUIT WITHOUT FURTHER DESIGNATION INDICATES A TWO-WIRE CIRCUIT. FOR A GREATER NUMBER OF WIRES INDICATE AS FOLLOWS:		SERVICE SWITCH OR BREAKER CONTROLLER	
/// (3 WIRES); //// (4 WIRES), ETC.		DISCONNECT SWITCH	

AUXILIARY SYSTEMS:


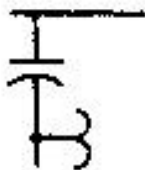
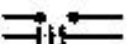
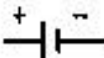




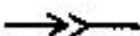













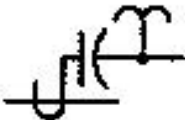

PUSH BUTTON		BELL RINGING TRANSFORMER	
BUZZER		TELEVISION	
BELL		FIRE ALARM BELL	
ANNUNCIATOR		FIRE ALARM STATION	
TELEPHONE		CITY FIRE ALARM STATION	
INTERCOMMUNICATION TELEPHONE		FIRE ALARM CENTRAL STATION	
TELEPHONE SWITCHBOARD		AUTOMATIC FIRE ALARM DEVICE	
		HORN	

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ELECTRICAL SYMBOLS SCHEMATIC AND DIAGRAMMATIC

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ANTENNA		COUPLING, CAPACITOR POTENTIAL DEVICE	
ARRESTER, LIGHTNING			
BATTERY		CONTACT, OPEN	
CIRCUIT BREAKER - SINGLE POLE		CONTACT, CLOSED	
CIRCUIT BREAKER - 3 POLE WITH THERMAL OVERLOAD DEVICE IN ALL 3 POLES		DISCONNECTING DEVICE	
		ELEMENT, THERMAL	
		ELEMENT, FUSIBLE	
CIRCUIT BREAKER - 3 POLE WITH MAGNETIC OVERLOAD DEVICE IN ALL 3 POLES		FUSE	
		GROUND	
CIRCUIT BREAKER - 3 POLE, DRAWOUT TYPE		MACHINE, ROTATING, BASIC	
		GENERATOR, GENERAL	
CAPACITOR		MOTOR, GENERAL	
CAPACITOR, VARIABLE		WOUND ROTOR, OR SYNCHRONOUS INDUCTION MOTOR	
		ROTATING ARMATURE WITH COMMUTATOR AND BUSHES	
CAPACITANCE, BUSHING POTENTIAL DEVICE		SEPARATELY EXCITED DIRECT - CURRENT GENERATOR OR MOTOR	

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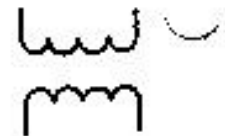
ELECTRICAL SYMBOLS SCHEMATIC AND DIAGRAMMATIC

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1 MAR 87

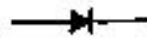
METER OR INSTRUMENT
* LETTER DENOTES TYPE



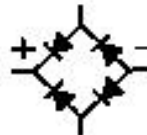
TRANSFORMER-GENERAL



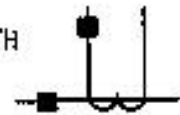
DIODE



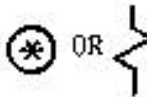
RECTIFIER-FULL-WAVE
BRIDGE



TRANSFORMER-CURRENT WITH
POLARITY MARKING



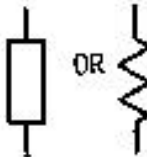
RELAY COIL
* IDENTIFYING LETTER
OR NUMBER



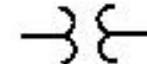
TRANSFORMER-CURRENT,
BUSHING TYPE



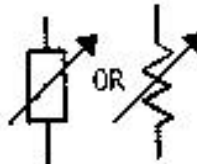
RESISTOR



TRANSFORMER-POTENTIAL



RESISTOR-VARIABLE



SWITCH-SINGLE THROW



SWITCH WITH HORN CAP



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